

Investigative and Forensic Electronic Equipment Refresh **FY2024 Request:** \$678,800
Reference No: 64614

AP/AL: Appropriation **Project Type:** Renewal and Replacement
Category: Public Protection
Location: Anchorage (Chugiak) **House District:** Anchorage Areawide (HD 12-28)
Impact House District: Anchorage Areawide (HD 12-28) **Contact:** Pam Halloran
Estimated Project Dates: 07/01/2023 - 06/30/2028 **Contact Phone:** (907)465-5501

Brief Summary and Statement of Need:

This five-year refreshment plan is for all investigative and forensic electronic equipment including digital forensics workstations, mobile digital forensic workstations, cell phone forensic tools, write blocker kits, forensic imagers, various adaptors and support devices, digital crime scene mapping equipment, undercover Internet Crimes Against Children (ICAC) computers, uninterrupted power source (UPS) backup units, and ICAC service.

Funding:	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
1004 Gen Fund	\$678,800						\$678,800
Total:	\$678,800	\$0	\$0	\$0	\$0	\$0	\$678,800

☐ State Match Required
 ☐ One-Time Project
 ☐ Phased - new
 ☐ Phased - underway
 ☐ Ongoing
 0% = Minimum State Match % Required
 ☐ Amendment
 ☐ Mental Health Bill

Operating & Maintenance Costs:

	<u>Amount</u>	<u>Staff</u>
Project Development:	0	0
Ongoing Operating:	0	0
One-Time Startup:	0	
Totals:	0	0

Prior Funding History / Additional Information:

Project Description/Justification:

Investigative and forensic electronic equipment is utilized by trained State Trooper investigators and civilian technicians to catch child predators, child pornography, trafficking of children and adults, and significant felony crimes involving the use of the Internet and electronic items. The Alaska Bureau of Investigation's electronic equipment currently averages about four to five years in age and the maintenance includes costly repairs, updates, and security fixes. The department intends to expand investigative and forensic equipment into Southeast Alaska.

The Alaska Bureau of Investigation and its Digital Forensics Laboratory (DFL) provides investigative and forensic support to the entire law enforcement community in Alaska. The only other digital forensic laboratory in Alaska is at the Anchorage Police Department and they rely on Department of Public Safety services for certain technical examinations. Unlike other law enforcement equipment, like firearms and laser trajectory rods, electronic equipment becomes antiquated at a much quicker rate.

Moore's Law states overall computer processing power doubles every two years, this has been very consistent from 1965 - 2017. Since the advent of systems-on-a-chip that packages central processing units, graphics processing units, neural processing units, accelerators, digital signal processors and all the alternative processing power, computer processing power is growing at more than 100 percent per annum. This means processing power is now quadrupling every 24 months.

The Alaska Bureau of Investigation also has digital crime scene mapping equipment (\$50,000 each) that creates digital twins of the most heinous felony cases across the state. This equipment produces a virtual twin of a crime scene, allowing prosecutors and juries to virtually walk through a crime scene. Feedback from jurors, prosecutors, and judges of these virtual crime scenes have been overwhelmingly positive. The department's current fleet of digital crime scene mapping tools range from two to six years old and the oldest digital mapping tools are no longer supported.

This project will support a five-year replacement plan for 12 workstations, 10 mobile workstations, 12 cell phone forensic tools, three write blocker kits, various adapters and support devices, six digital crime scene mapping equipment, five under cover ICAC computers, 21 UPS power backup, and an ICAC server.